

FIG. 1

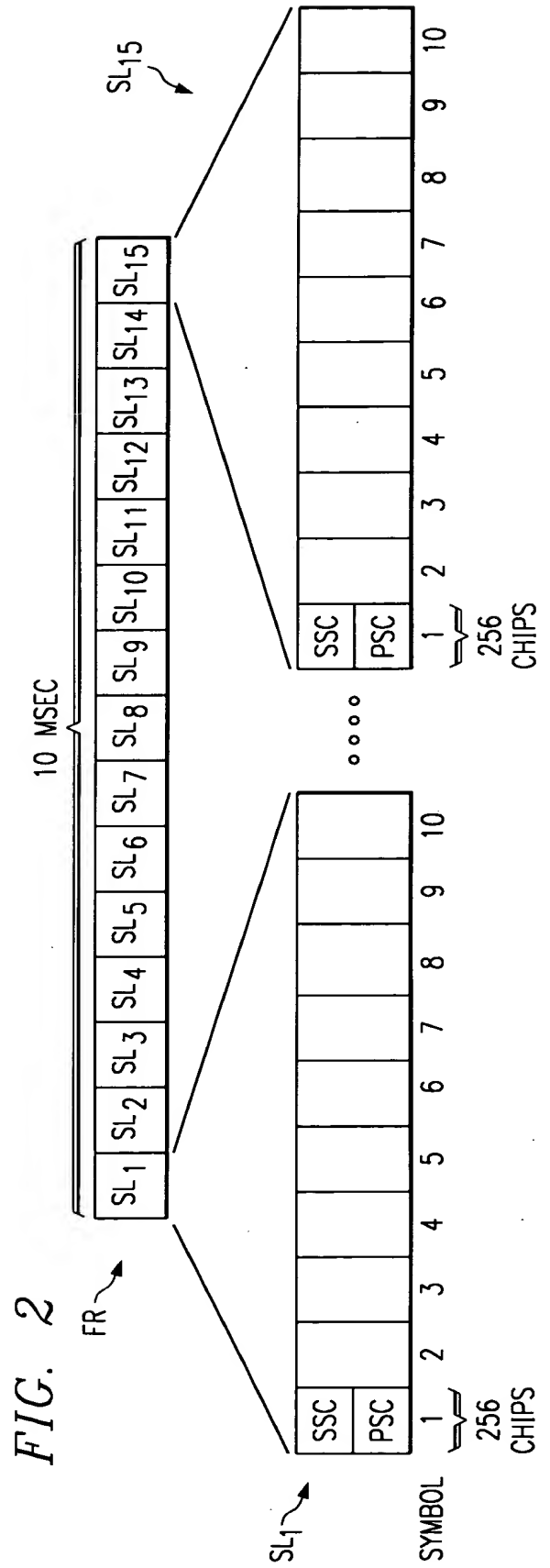


FIG. 2

FIG. 3

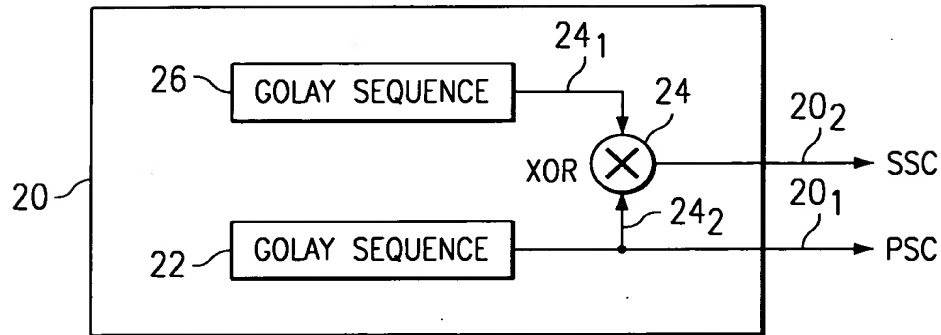


FIG. 4a

K	()...7..127															
X ₁	A	A	B	B	A	-A	-B	B	A	-A	B	-B	A	A	-B	-B
X ₂	A	A	B	B	A	-A	-B	B	-A	A	-B	B	-A	-A	B	B
X ₃	A	-A	B	-B	A	A	-B	-B	A	A	B	B	A	-A	-B	B
X ₄	A	-A	B	-B	A	A	-B	-B	-A	-A	-B	-B	-A	A	B	-B
X ₅	A	A	B	B	-A	A	B	-B	A	-A	B	-B	-A	-A	B	B
X ₆	A	A	B	B	-A	A	B	-B	-A	A	-B	B	A	A	-B	-B
X ₇	A	-A	B	-B	-A	-A	B	B	A	A	B	B	-A	A	B	-B
X ₈	A	-A	B	-B	-A	-A	B	B	-A	-A	-B	-B	A	-A	-B	B
X ₉	A	A	-B	-B	A	-A	B	-B	A	-A	-B	B	A	A	B	B
X ₁₀	A	A	-B	-B	A	-A	B	-B	-A	A	B	-B	-A	-A	-B	-B
X ₁₁	A	-A	-B	B	A	A	B	B	A	A	-B	-B	A	-A	B	-B
X ₁₂	A	-A	-B	B	A	A	B	B	-A	-A	B	B	-A	A	-B	B
X ₁₃	A	A	-B	-B	-A	A	-B	B	A	-A	-B	B	-A	-A	-B	-B
X ₁₄	A	A	-B	-B	-A	A	-B	B	-A	A	B	-B	A	A	B	B
X ₁₅	A	-A	-B	B	-A	-A	-B	-B	A	A	-B	-B	-A	A	-B	B
X ₁₆	A	-A	-B	B	-A	-A	-B	-B	-A	-A	B	B	A	-A	B	-B
X ₁₇	B	B	A	A	B	-B	A	A	B	-B	A	-A	B	B	-A	-A

FIG. 4b

S(0)	x_1	$-x_1$
S(1)	x_2	$-x_2$
S(2)	x_3	$-x_3$
S(3)	x_4	$-x_4$
S(4)	x_5	$-x_5$
S(5)	x_6	$-x_6$
S(6)	x_7	$-x_7$
S(7)	x_8	$-x_8$
S(8)	x_9	$-x_9$
S(9)	x_{10}	$-x_{10}$
S(10)	x_{11}	$-x_{11}$
S(11)	x_{12}	$-x_{12}$
S(12)	x_{13}	$-x_{13}$
S(13)	x_{14}	$-x_{14}$
S(14)	x_{15}	$-x_{15}$
S(15)	x_{16}	$-x_{16}$
S(16)	x_{17}	$-x_{17}$

FIG. 5

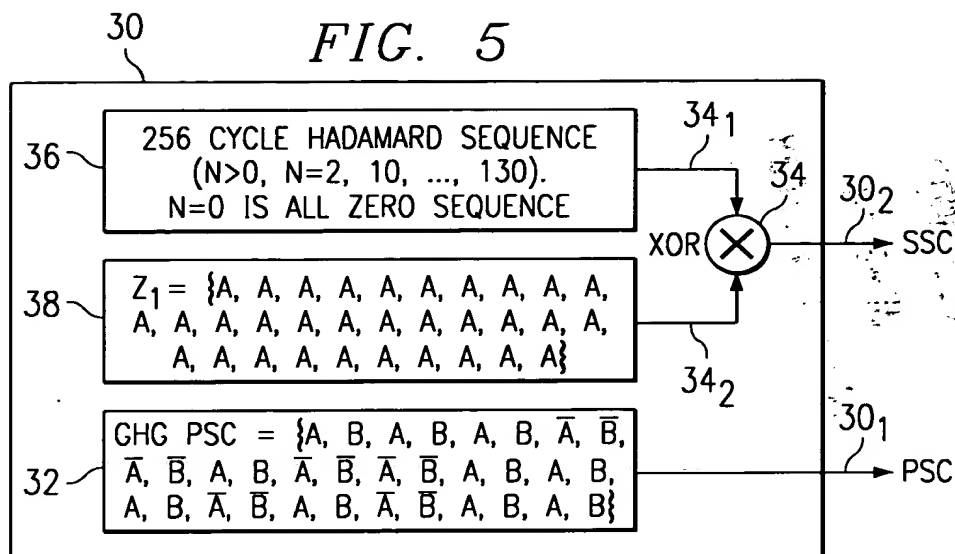


FIG. 6

CODE		FIG. 6																
CODE		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	1	248	8	16	8	32	8	16	8	64	8	16	8	32	8	16	8	128
	2	8	240	248	16	8	32	24	16	8	64	56	16	8	32	24	16	8
	3	16	248	240	8	16	24	32	8	16	56	64	8	16	24	32	8	16
	4	8	16	8	224	120	240	120	32	8	16	8	64	24	48	24	32	8
	5	32	8	16	120	224	120	240	8	32	8	16	24	64	24	48	8	32
	6	8	32	24	240	120	224	136	16	8	32	24	48	24	64	40	16	8
	7	16	24	32	120	240	136	224	8	16	24	32	24	48	40	64	8	16
	8	8	16	8	32	8	16	8	200	56	112	56	224	56	112	56	64	8
	9	64	8	16	8	32	8	16	56	200	56	112	56	224	56	112	8	64
	10	8	64	56	16	8	32	24	112	56	192	200	112	56	224	168	16	8
	11	16	56	64	8	16	24	32	56	112	200	192	56	112	168	224	8	16
	12	8	16	8	64	24	48	24	224	56	112	56	192	72	144	72	32	8
	13	32	8	16	24	64	24	48	56	224	56	112	72	192	72	144	8	32
	14	8	32	24	48	24	64	40	112	56	224	168	144	72	192	184	16	8
	15	16	24	32	24	48	40	64	56	112	168	224	72	144	184	192	8	16
	16	8	16	8	32	8	16	8	64	8	16	8	32	8	16	8	232	24
	17	128	8	16	8	32	8	16	8	64	8	16	8	32	8	16	24	232

FIG. 7

APERIODIC CROSS-
CORRELATION OF THE
COMMA FREE CODES

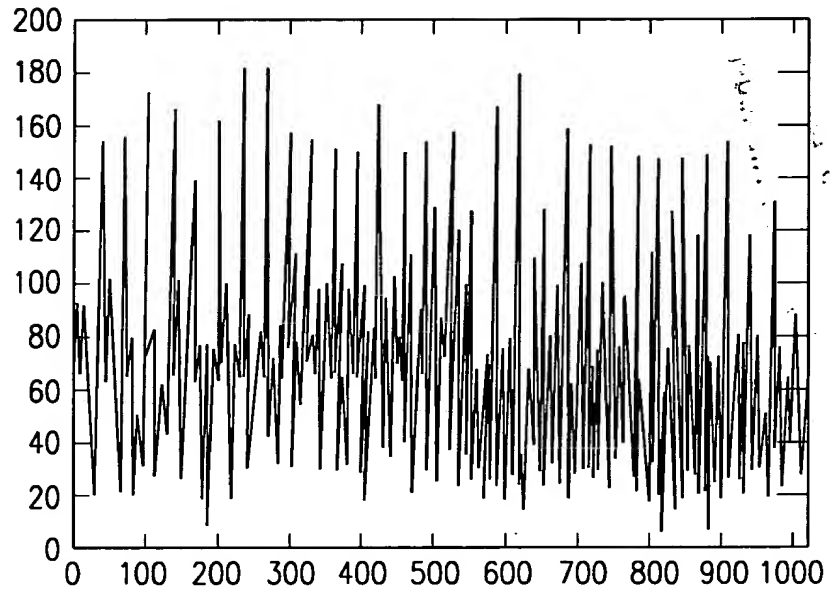


FIG. 8

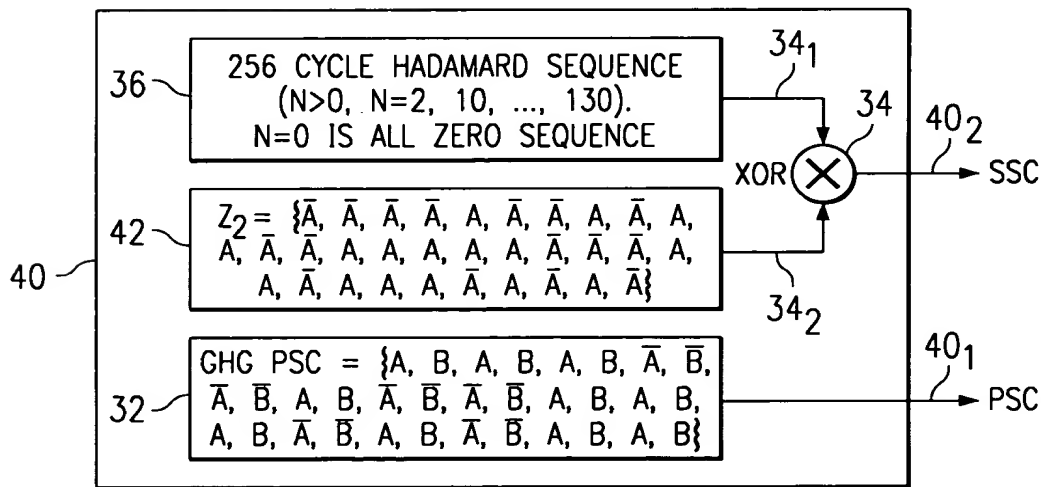


FIG. 9

FIG. 9

CODE	CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	1	95	72	64	64	72	72	72	80	56	64	104	104	72	72	88	88	72
	2	72	97	64	64	72	72	80	72	64	56	104	104	72	72	88	88	80
	3	64	64	89	64	72	80	72	72	104	104	56	64	88	88	72	72	64
	4	64	64	64	103	80	72	72	72	104	104	64	56	88	88	72	72	88
	5	72	72	72	80	97	72	72	72	72	120	88	80	80	72	120	120	96
	6	72	72	80	72	72	95	72	72	120	72	80	72	88	80	120	120	104
	7	72	80	72	72	72	72	87	48	80	88	120	72	120	120	80	64	72
	8	80	72	72	72	72	72	72	105	8	88	80	72	120	120	64	80	104
	9	56	64	104	104	72	120	80	88	97	72	88	88	80	96	88	96	128
	10	64	56	104	104	120	72	88	80	72	95	88	88	96	80	96	88	72
	11	104	104	56	64	88	80	120	72	88	88	87	88	80	96	80	96	80
	12	104	104	64	56	80	88	72	120	88	88	88	105	96	80	96	80	80
	13	72	72	88	88	80	72	120	120	80	96	80	96	95	88	72	80	104
	14	72	72	88	88	72	80	120	120	96	80	96	80	88	97	80	72	88
	15	88	88	72	72	120	120	80	64	88	96	80	96	72	80	89	64	72
	16	88	88	72	72	120	120	64	80	96	88	96	80	80	72	64	103	72
	17	72	80	64	88	96	104	72	104	128	72	80	80	104	88	72	72	93

FIG. 10

APERIODIC CROSS-
CORRELATION OF THE
COMMA FREE CODES

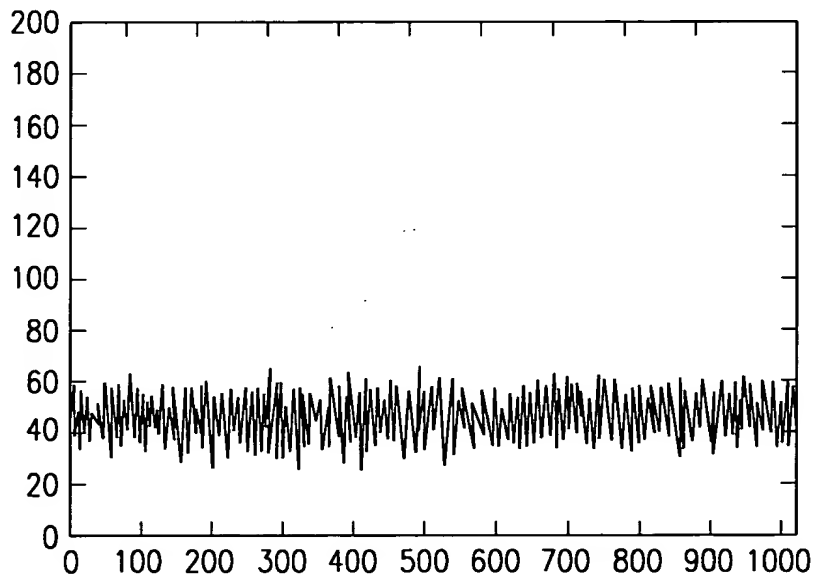


FIG. 11

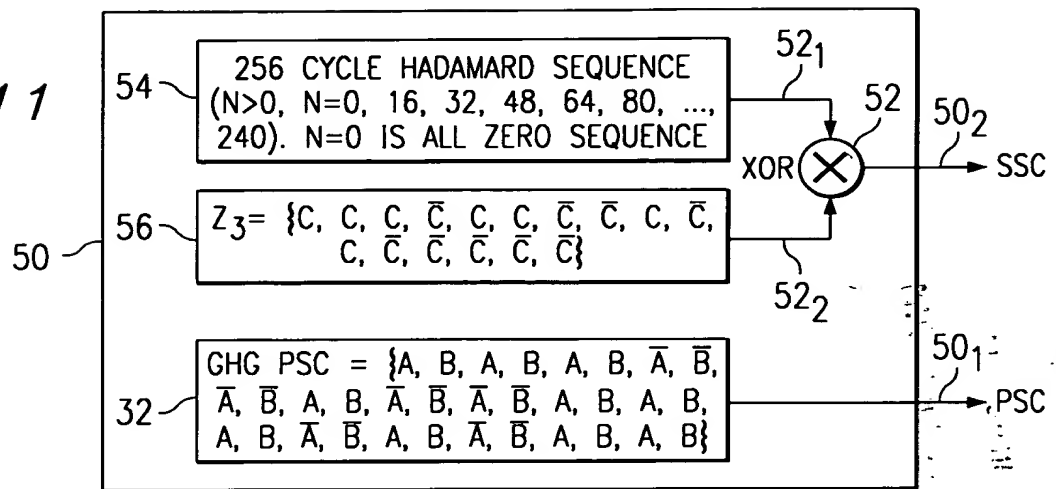


FIG. 12

APERIODIC CROSS-CORRELATION OF THE COMMA FREE CODES

